

Patent Abstracts of Japan

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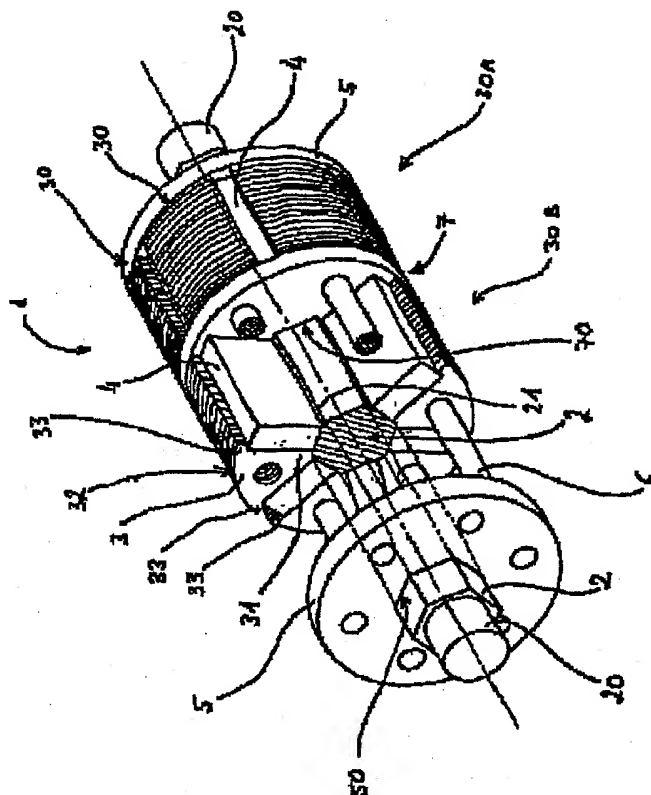
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TITLE : ELECTRIC MACHINE WITH ROTOR  
ADAPTED ESPECIALLY TO HIGH  
SPEED



ABSTRACT : PROBLEM TO BE SOLVED: To provide a design for a dynamo electric machine, which is capable of attaining high rotational speed, for example, at least 12,000 rpm, without encountering any problem associated with torque transmission or centrifugation of a rotor.

SOLUTION: This dynamo electric machine is one of embedded magnet and flux concentration type. A rotor 1 contains ferromagnetic sheets 3, assembled and retained on the shaft 2 with tie rods 6 which enclose each pole piece between lateral flanges 5. The machine contains intermediate flanges 7, with each pole piece being divided into several sectors 30A and 30B aligned axially and separated by the intermediate flange. A polygonal shaft 2 crosses each intermediate flange, passing through a central recess 70. Each intermediate flange is crossed by at least one tie rod 6 per pole piece.

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